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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	TORNEY DOCKET NO.
09/382,441	2 08/25/99	REINBERG		А	303.522US1
_		MMC2/0620 WOESSNER & KLUTH	٦	EXAMINER	
021186 SCHWEGMAN.	. LUNDBERG,			BOOTH, F	:
P.O. BOX	2938			ART UNIT	PAPER NUMBER
MINNEAPOL	IS MN 55402			2812	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

06/20/01

	Application No.	Applicant(s)
•	09/382,442	REINBERG, ALAN R.
Office Action Summary	Examiner	Art Unit
	Richard A. Booth	2812
The MAILING DATE of this communication	on appears on the cover sheet v	vith the correspondence address
aniad for Book		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) di - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, - Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	TON. 7 CFR 1.136 (a). In no event, however, markation. ays, a reply within the statutory minimum of any period will apply and will expire SIX (6) N	y a reply be timely filed thirty (30) days will be considered timely. HONTHS from the mailing date of this communication.
Status 1)⊠ Responsive to communication(s) filed	on <u>21 May 2001</u> .	
2b)⊠ This action is non-final.	
2a) This action is FINAL. 3) Since this application is in condition for closed in accordance with the practice	Howers overt for formal	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
Disposition of Claims		
4)☑ Claim(s) 1-14, 26-32, and 35-39 is/are	e pending in the application.	
4a) Of the above claim(s) is/are	withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-14, 26-32, and 35-39</u> is/are	e rejected.	
7) Claim(s) is/are objected to.		•
8) Claims are subject to restriction	on and/or election requirement	
Application Papers		
The specification is objected to by the	Examiner.	
to The drawing(s) filed on is/are	objected to by the Examiner.	
11) The groposed drawing correction filed	d on is: a)∏ approved	b) disapproved.
12) The oath or declaration is objected to	by the Examiner.	
Priority under 35 U.S.C. § 119 13)	for foreign priority under 35 U.S	S.C. § 119(a)-(d) or (f).
13) Acknowledgment is made of a claim	ior loroign phony areas	
a) All b) Some * c) None of:	documents have been received	i .
Certified copies of the priority Certified copies of the priority	documents have been received	d in Application No
2. Certified copies of the priority	of the priority documents have	been received in this National Stage
3. Copies of the certified copies application from the Intern * See the attached detailed Office action		
	n for domestic priority under 3	5 U.S.C. § 119(e).
14) Acknowledgement is made of a class	High gamesac bases.	
Attachment(s)	18) 🔲 lı	nterview Summary (PTO-413) Paper No(s)
15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review 17) Information Disclosure Statement(s) (PTO-1449)	(PTO-948) 19) 19	lotice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Continued Prosecution Application

The request filed on 5-21-01 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/382,442 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14, 26-32, and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted prior art in view of Lisenker or Clark et al., U.S. Patent 5,972,765.

Admitted prior art shows the invention as claimed including the fact that EPROMs are subject to problems related to hot carrier degradation (see specification, page 2, line 28 – page 5, line 6).

The admitted prior art in the specification fails to disclose using deuterium to cure the hot electron degradation affect.

Lisenker discloses that poor quality oxide can be linked to hot electron degradation (see page 1, lines 25-30). Furthermore, Lisenker goes on to disclose using

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deuterium in a number of processes in which hydrogen has previously been employed (see particularly page 8, lines 29-35).

In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use deuterium to cure the hot electron problems in the Admitted prior art because Lisenker discloses that deuterium has been shown to be beneficial for this purpose.

In addition, Clark et al. discloses using deuterium throughout a semiconductor process in order to reduce the hot electron effect (see particularly column 2, line 54 — column 3, line 23). In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use deuterium as shown by Clark et al. in the Admitted prior art because this will help to mitigate the hot electron effect, as taught by Clark et al..

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is 308-3446. The examiner can normally be reached on 8.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 308-7724 for regular communications and 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1782.

Richard A. Booth Art Unit 2812